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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/743,548	12/22/2003	Herrmann-Josef Klingen	22607	5796
535	7590	08/11/2005	EXAMINER	
THE FIRM OF KARL F ROSS			TOLAN, EDWARD THOMAS	
5676 RIVERDALE AVENUE			ART UNIT	
PO BOX 900			PAPER NUMBER	
RIVERDALE (BRONX), NY 10471-0900			3725	

DATE MAILED: 08/11/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	Application No.	Applicant(s)
	10/743,548	KLINGEN ET AL.
	Examiner Tolan Edward	Art Unit 3725

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) Responsive to communication(s) filed on \_\_\_\_\_.
- 2a) This action is **FINAL**.                            2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) Claim(s) 1-20 is/are pending in the application.
  - 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) Claim(s) \_\_\_\_\_ is/are allowed.
- 6) Claim(s) 1-20 is/are rejected.
- 7) Claim(s) \_\_\_\_\_ is/are objected to.
- 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on 22 December 2003 is/are: a) accepted or b) objected to by the Examiner.
 

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) All    b) Some \* c) None of:
    1. Certified copies of the priority documents have been received.
    2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date 6-28-2004
- 4) Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) Notice of Informal Patent Application (PTO-152)
- 6) Other: \_\_\_\_\_.

## DETAILED ACTION

### ***Claim Objections***

In claim 19, line 2 “screw single screw” is repetitive.

### ***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-7,12-17 and 19 are rejected under 35 U.S.C. 102(b) as being anticipated by Bohmer (4,587,820). Bohmer discloses planetary cross rolling mill with a roll assembly comprising a roll shaft (15), a mill roll (19), a first toothed ring (18') on an end face of an axial end of the shaft (15) and a second toothed ring (20) on an end face of an axial end of the mill roll (19). In column 3, lines 54-60 Bohmer discloses that the teeth (18',20) are interdigitated through toothed cap (23) which produces a rotationally engaged connection between the shaft and roll. The teeth are a straight gear pattern. Toothed ring (20) is affixed by pins (22) which are parallel to an axis of the ring (20). A conical centering formation (25) with a tapered end projection fits into a conical recess in the roll. A single screw (24) connects the roll to the shaft.

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and

the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claim 20 is rejected under 35 U.S.C. 103(a) as being unpatentable over Bohmer (4,587,820) in view of Shen (5,934,131). Bohmer does not disclose a seal. Shen teaches a seal (S) between a roll shaft (10) and a roll (12). It would have been obvious to one skilled in the art at the time of invention to provide Bohmer with a seal as taught by Shen in order to keep externally applied lubricants or coolants from entering the roll casing.

Claims 8-11 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bohmer (4,587,820) in view of Benz (DE 3229201). Bohmer does not disclose that the projection extends into the roll to a depth at least 30% of the roll length. Benz teaches projection (13) which extends into roll (14) more than 30% of the roll length. It would have been obvious to one skilled in the art at the time of invention to extend the projection of Bohmer as taught by Benz as long as necessary to provide a secure connection between the shaft and roll.

### ***Conclusion***

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication should be directed to Ed Tolan whose telephone number is 571-272-4525, FAX communications should be sent to 703-872-  
9300.

ED TOLAN  
PRIMARY EXAMINER  
